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IN THE CLAIMS:

Please cancel Claims 28, 29, 31 - 44, 46 - 54, 56, and 57 without prejudice. Please amend Claims 1, 2, 4 - 6, 9, 10, 13 - 17, 20, 21, 24 - 27, 30, 45, and 55, as follows.

1. (Twice Amended/Presently Amended) A method of preheating a <u>metal-containing</u> substrate which includes a metal-containing layer containing a metal selected from the group consisting of platinum, iridium, ruthenium, and combinations thereof, where on an exposed said substrate surface of said substrate to is etched at a temperature of at least 150 °C, wherein said method comprises exposing said exposed substrate surface of said substrate to a preheating plasma generated from a first plasma source gas which is sufficiently includes a slightly reactive with said metal-containing layer gas that is selected so that a compound deposit or residue formed during said preheating which includes metal from said metal-containing layer is more easily etched during a subsequent pattern etching step than said metal-containing layer during a subsequent plasma etching of said metal-containing layer, followed by said subsequent pattern etching step carried out using a second plasma source gas which is different from and more reactive with said metal-containing layer than said first plasma source gas wherein said metal is selected from the group consisting of platinum, iridium, ruthenium, and combinations thereof.

- 2. (Once Amended / Presently Amended) The method of Claim 1, wherein said metal-containing layer is a platinum-containing layer and a first <u>plasma</u> source gas used to produce said preheating plasma includes nitrogen.
- 3. (Original) The method of Claim 2, wherein said platinum-containing layer is platinum.
- 4. (Once Amended / Presently Amended) The method of Claim 2 or Claim 3, wherein said first plasma source gas is at least 50 % by volume nitrogen.

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5. (Once Amended / Presently Amended) The method of Claim 4, wherein a said second

plasma source gas used during subsequent plasma etching of said platinum-containing layer or

said platinum layer is at least 15 % by volume nitrogen.

6. (Once Amended / Presently Amended) The method of Claim 1, wherein said metal-

containing layer is a ruthenium-containing layer and a said first plasma source gas used to

produce said preheating plasma includes a gas selected from the group consisting of nitrogen,

oxygen, and combinations thereof.

7. (Original) The method of Claim 6, wherein said ruthenium-containing layer is ruthenium

oxide.

8. (Original) The method of Claim 6, wherein said ruthenium-containing layer is

ruthenium.

9. (Once Amended / Presently Amended) The method of Claim 7 or Claim 8, wherein said

first plasma source gas is at least 50 % by volume nitrogen.

10. (Once Amended / Presently Amended) The method of Claim 9, wherein said first plasma

source gas is nitrogen.

11. (Original) The method of Claim 7 or Claim 8, wherein said first plasma source gas is at

least 50 % or more oxygen by volume.

12. (Original) The method of Claim 11, wherein said first plasma source gas is oxygen.

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13. (Once Amended / Presently Amended) The method of Claim 9, wherein a said second

plasma source gas used during subsequent plasma etching of said ruthenium-containing layer is

at about 70 % or more oxygen by volume.

14. (Once Amended / Presently Amended) The method of Claim 10, wherein a said second

plasma source gas used during subsequent plasma etching of said ruthenium-containing layer is

about 70 % or more oxygen by volume.

15. (Once Amended / Presently Amended) The method of Claim 11, wherein a said second

plasma source gas used during subsequent plasma etching of said ruthenium-containing layer is

at about 70 % or more oxygen by volume.

16. (Once Amended / Presently Amended) The method of Claim 12, wherein a said second

plasma source gas used during subsequent plasma etching of said ruthenium-containing layer is

about 70 % or more oxygen by volume.

17. (Once Amended / Presently Amended) The method of Claim 1, wherein said metal-

containing layer is an iridium-containing layer and a said first plasma source gas used to produce

said preheating plasma includes a gas selected from the group consisting of nitrogen, oxygen,

and combinations thereof.

18. (Original) The method of Claim 17, wherein said iridium-containing layer is iridium

oxide.

19. (Original) The method of Claim 17, wherein said iridium-containing layer is iridium.

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20. (Once Amended / Presently Amended) The method of Claim 18 or Claim 19, wherein said first plasma source gas is at least 50 % by volume nitrogen.

- 21. (Once Amended / Presently Amended) The method of Claim 20, wherein said first plasma source gas is nitrogen.
- 22. (Original) The method of Claim 18 or Claim 19, wherein said first plasma source gas is about 50 % or more oxygen by volume.
- 23. (Original) The method of Claim 22, wherein said first plasma source gas is oxygen.
- 24. (Once Amended / Presently Amended) The method of Claim 20, wherein a said second plasma source gas used during subsequent plasma etching of said iridium-containing layer is at about 70 % or more oxygen by volume.
- 25. (Once Amended / Presently Amended) The method of Claim 21, wherein a <u>said</u> second plasma source gas used during subsequent plasma etching of said iridium-containing layer is at about 70 % or more oxygen by volume.
- 26. (Once Amended / Presently Amended) The method of Claim 22, wherein a said second plasma source gas used during subsequent plasma etching of said iridium-containing layer is at about 70 % or more oxygen by volume.
- 27. (Once Amended / Presently Amended) The method of Claim 23, wherein a said second plasma source gas used during subsequent plasma etching of said iridium-containing layer is at about 70 % or more oxygen by volume.

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- 28. (Presently Cancelled)
- 29. (Presently Cancelled)
- 30. (Once Amended / Presently Amended) The method of Claim 29, 4, wherein said first nitrogen-comprising plasma source gas is nitrogen.
- 31 44. (Presently Cancelled)
- 45. (Once Amended / Presently Amended) The method of Claim 44, 17, wherein said second source gas includes oxygen.
- 46 54. (Presently Cancelled)
- 55. (Once Amended / Presently Amended) The method of Claim 50, 1, wherein said second plasma source gas includes an inert, non-reactive gas selected from the group consisting of helium, neon, argon.
- 56. (Presently Cancelled)
- 57. (Presently Cancelled)